

$^{144}\text{Nd}(\text{d,t})$  1973Ga01,1978VaZS,1976BjZY

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	E. Browne, J. K. Tuli		NDS 113, 715 (2012)	31-May-2011

E=12.6 MeV; FWHM $\approx$ 25 keV (estimated by evaluators) (1973Ga01); E=17 MeV (1976BjZY); E=75 MeV; FWHM $\approx$ 90 keV (estimated by evaluators) (1978VaZS).

Measured:  $\sigma(E,\theta)$ , DWBA analysis.

 $^{143}\text{Nd}$  Levels

E(level) <sup>#</sup>	$J^\pi$ <sup>†</sup>	L	$C^2S$ <sup>‡</sup>	Comments
0.0	7/2 <sup>-</sup>	3	0.96	
741 12	3/2 <sup>-</sup>	1	0.196	
1257 20	13/2 <sup>+</sup>			L: $\sigma(\theta)$ suggests large L and may be fitted with L=5 proposed in 1978VaZS or L=6 needed from adopted $J^\pi=13/2^+$ .
1297	1/2 <sup>-</sup>	1	0.068	E(level),L: from 1973Ga01 (at E(d)=12.6 MeV).
1411 22				
1545	5/2 <sup>-</sup>	3		E(level),L: from 1973Ga01.
1552 6	3/2 <sup>+</sup>	2	1.96	E(level),L: from 1978VaZS.
1596	1/2 <sup>+</sup>	0	0.64	
1761 10	1/2 <sup>+</sup>	0	0.52	
1966 6	(5/2 <sup>+</sup> ,3/2 <sup>+</sup> )	(2)	0.216,0.33	
2200 8	11/2 <sup>-</sup>	(5)	0.276	

<sup>†</sup> Values used in calculation of  $C^2S$ .

<sup>‡</sup> From 1973Ga01.

<sup>#</sup> From 1978VaZS, except for levels at 1297, 1545 and 1596, which are from 1973Ga01.